

# UNIVERSITY OF CENTRAL MISSOURI

## MCC A.A. to UCM B.S. in Biology: Biomedical/Cellular and Molecular Biology

### YEARS 1 AND 2 AT MCC

(UCM Equivalencies in parenthesis)

#### COMMUNICATIONS – 9 Credit Hours

ENGL 101 Composition and Reading I (ENGL 1020)	3
ENGL 102 Composition and Reading II (ENGL 1030)	3
COMM 100 Fundamentals of Speech (COMM 1000) <i>or</i>	3
COMM 102 (Communication general education)	

#### MATHEMATICS – 3 Credit Hours

**MATH 120 College Algebra (MATH 1111)	3
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#### AMERICAN INSTITUTIONS – 3 Credit Hours

HIST 120 (HIST 1350), 121 (HIST 1351), POLS 136 (POLS 1510)	3
<i>or</i> 137 (POLS 2511)	

#### SCIENCES – 7 Credit Hours

**CHEM 111 General College Chemistry I (CHEM 1131)	5
**BIOL 202 Ecology (BIOL 2020)	5

#### WESTERN CIVILIZATIONS – 3 Credit Hours

HIST 133 (HIST 1400) <i>or</i> HIST 134 (HIST 1402)	3
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#### SOCIAL SCIENCES – 3 Credit Hours

ANTH 100 (ANTH 1810), ANTH 110 (ANTH 1820), PSYC 140	3
(PSY 1100), SOCI 160 (SOC 1800), ECON 210 (ECON 1010)	
<i>or</i> ECON 211 (ECON 1011)	

#### HUMANITIES – 3 Credit Hours

ENGL 218 (GNED 1909), 220 (ENGL 2210), 221 (ENGL 2215),	3
222 (ENGL 2200), 223 (ENGL 2205), 268 (ENGL 2270),	
PHIL 100 (PHIL 1000), 200 (PHIL 1400), <i>or</i> 203 (PHIL 2300)	

#### HUMANITIES APPRECIATION – 3 Credit Hours

ART 108 (ART 1800), ART 150 (ART 1815), ART 151 (ART 1825)	3
MUSI 108 (MUS 1210), <i>or</i> THEA 106 (THEA 2400), ARAB,	
FREN, GERM, CHIN, SIGN, SPAN 101 (SPAN 1601), SPAN 102	
(SPAN 1602), SPAN 203 (SPAN 2601), <i>or</i> SPAN 204	
(SPAN 2602)	

#### COMMON CORE ELECTIVES – 8 Credit Hours

Take additional common core electives to reach 42 hours of general education. Offerings available at

<http://www.mcckc.edu/programs/aa/>

#### GENERAL DEGREE REQUIREMENTS – 7 Credit Hours

COLL 100 First Year Seminar	1
Global Diversity	3
Course options available at <a href="http://www.mcckc.edu/programs/aa/">http://www.mcckc.edu/programs/aa/</a>	
CSIS 115 (CIS 1600) or higher	3

#### ELECTIVES – 11 Credit Hours

**BIOL 101 General Biology (BIO 1110)	5
**BIOL 104 General Botany (BIOL 1111) <i>or</i>	5
**BIOL 106 General Zoology (BIOL 1112)	5
**CHEM 112 General College Chemistry II (CHEM 1132)	5
#CHEM 221 Organic Chemistry I (CHEM 3341)	5
#CHEM 222 Organic Chemistry II (CHEM 3342)	5
**PHYS 130 General Physics I (PHYS 1101)	5
**MATH 115 Statistics (ACST 1300)	3

### YEARS 3 AND 4 AT UCM

#### CORE REQUIREMENTS – 10 Credit Hours

BIOL 1000 The Discipline of Biology	1
BIOL 2512 Cell Biology	3
BIOL 4102 Evolution	3
BIOL 4222 The Biological Perspective	3

#### Area 5: Biomedical/Cellular and Molecular Biology – 27 C.H.

BIOL 3511 Genetics	4
BIOL 4002 Life Science Senior Seminar	1
BIOL 4514 Molecular Biology	3
BIOL 4515 Molecular Technology	3

#### Choose 16 credit hours from the following: 16

AGRI 4310 Plant Breeding & Genetics	3
AGRI 4320 Plant Diseases	3
BIOL 3413 Immunology	3
BIOL 3431 Animal Physiology	4
BIOL 3611 Microbiology	3
BIOL 4311 Parasitology	4
BIOL 4411 Plant Physiology	4
BIOL 4516 Hematology/Virology	3
BIOL 4517 Serology Lab	1
CHEM 3421 Intermediate Biochemistry	3

#### FREE ELECTIVES – 25 Credit Hours

\*\*Course fulfills a major requirement at UCM and if not taken as part of AA must be taken at UCM

# Fulfills a part of the required UCM Option 5 electives

Minimum Hours Required for A.A.: 60  
Minimum Hours Required for B.S.: 120

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### VALIDITY OF THIS TRANSFER GUIDE

This guide is based on the UCM 2017 Undergraduate Catalog and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree completion and course sequencing will depend on any credits transferred to UCM and on planned placement in math, reading, and writing. See the current UCM Undergraduate Catalog and MCC Course Catalog for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

### GENERAL EDUCATION REQUIREMENTS

Students who hold an Associate in Arts Degree from MCC or have met the Missouri 42-hour General Education Core requirements are considered to have fulfilled all UCM General Education requirements, except specific general education classes required by this major. Lists of General Education Requirements can be found in the UCM Catalog.

**For those students with an associate degree other than the Associate of Arts or who have not completed the A.A. degree, transfer courses are evaluated on a course-by-course basis.**

### REQUIREMENTS FOR THIS MAJOR

- Minimum of 120 hours
- Minimum of 30 hours of upper-level credit (3000/4000 level). Courses taken at a two-year college MAY be articulated for an upper-level course but WILL NOT count towards upper-level hour requirements.
- Minimum of 12 hours of upper-level credit (3000/4000 level) in major
- No minor is required for this degree.
- No modern language is required for this degree.

### RESIDENCY REQUIREMENTS FOR A DEGREE AT UCM

A candidate for any bachelor's degree must have earned the following minimum hours at UCM:

- 30 hours overall
- 20 upper-level hours (3000/4000 level courses)
- 15 hours in the major
- 9 upper-level hours in the major
- 9 hours in minor (if applicable)
- 1 upper-level hour in minor (if applicable)
- The last 12 semester hours required for the degree

### GPA REQUIRED FOR GRADUATION

Students must achieve a minimum GPA of 2.00 in all GPAs to qualify for graduation. This includes cumulative GPA, UCM GPA, major GPA, and minor GPA (if applicable). Some degrees have additional GPA requirements.

### DUAL ADMISSION

Students are encouraged to apply for dual admission during their first semester at MCC to coordinate associate degree completion with degree requirements at UCM. To learn more visit [www.ucmo.edu/undergrad/dualadmissions.cfm](http://www.ucmo.edu/undergrad/dualadmissions.cfm).

### GENERAL EDUCATION ASSESSMENT

All UCM students are required to pass a General Education Assessment (GEA). Students transferring in more than 45 hours are required to take the test during their first semester at UCM. Testing Services can be contacted by phone at (660) 543-4919 or by e-mail at [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu). To learn more visit [www.ucmo.edu/assessment/documents/gened\\_policy.pdf](http://www.ucmo.edu/assessment/documents/gened_policy.pdf)

### CATALOGS

Metropolitan Community College catalog: [http://www.mcckc.edu/PDF/MCC Online Catalog 2016-2017.pdf](http://www.mcckc.edu/PDF/MCC%20Online%20Catalog%202016-2017.pdf)  
UCM catalog: [www.ucmo.edu/catalogs](http://www.ucmo.edu/catalogs)

### TRANSFER WORK

Arrange for all transfer work to be posted at UCM at the time of application. An official transcript must be received at UCM directly from each school attended. Individual transfer equivalencies can be found online at [www.ucmo.edu/corequiv](http://www.ucmo.edu/corequiv). Transcripts can be sent to: University of Central Missouri, Office of Admissions, Ward Edwards 1400, Warrensburg, MO 64093

### UCM TRANSFER ADVISORS

UCM advisors for programs in the College of Health, Science, and Technology (CHST) are located in the CHST Advising Center located in Administration 105. Contact your advisor by calling (660)543-4554 or by email [chstadvising@ucmo.edu](mailto:chstadvising@ucmo.edu).

### UCM DEPARTMENT CONTACT

The Department of Biology and Agriculture is located in W.C. Morris room 306. You can contact them by telephone at (660) 543-4933. To learn more visit [www.ucmo.edu/biology](http://www.ucmo.edu/biology).

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